RAW SEQUENCE LISTING

DATE: 10/04/2000 TIME: 22:32:05 PATENT APPLICATION: US/09/515,806

Input Set : A:\38155002.app
Output Set: N:\CRF3\10042000\I515806.raw

69	agg	ctg	ttg	gag	gcc	aag	cgg	aaa	gaa	gag	cag	gag	caa	cgt	gaa	atc	587
70	Arg	Leu	Leu	Glu	Ala	Lys	Arg	Lys	Glu	Glu	Gln	Glu	Gln	Arg	Glu	Ile	
71	160					165					170					175	
73	ctg	cat	gag	att	cag	aga	agg	aaa	gaa	gag	ata	aaa	gaa	gag	aaa	aaa	635
74	Leu	His	G1u	Ile	Gln	Arg	Arg	Lys	Glu	Glu	Ile	Lys	Glu	Glu	Lys	Lys	
75					180					185					190		
77	agg	aaa	gaa	atg	gct	aag	cag	gaa	cgt	ttg	gaa	att	gct	agt	ttg	tca	683
78	Arg	Lys	Ğlu	Met	Ala	Lys	Gln	Glu	Arg	Leu	Glu	Ile	Ala	Ser	Leu	Ser	
79	-	-		195					200					205			
81	aac	caa	gat	cat	acc	tct	aag	aag	gac	cca	gga	gga	cac	aga	acg	gct	731
82	Asn	Gln	Asp	His	Thr	Ser	Lys	Lys	Asp	Pro	Gly	Gly	His	Arg	Thr	Ala	
83			210					215					220				
85	gcc	att	cta	cat	qqa	ggc	tct	cct	qac	ttt	gta	gga	aat	ggt	aaa	cat	779
86	Ála	Ile	Leu	His	Gly	Gly	Ser	Pro	Asp	Phe	Val	Gly	Asn	Gly	Lys	His	
87		225			-	-	230					235					
89	caa	qca	aac	tcc	tca	gga	agg	tct	agg	cga	gaa	cgt	cag	tat	tct	gta	827
90	Arg	Ala	Asn	Ser	Ser	Gly	Arg	Ser	Arg	Arg	Glu	Arg	G1n	Tyr	Ser	Val	
	240					245	_				250					255	
93	tat	aat	aαt	qaa	gat	tct	cct	ggc	tct	tgt	gaa	att	ctg	tat	ttc	aat	875
94	Cvs	Asn	Ser	Glu	Ásp	Ser	Pro	Gly	Ser	Cys	Glu	Ile	Leu	Tyr	Phe	Asn	
95	0,70				260			-		265					270		
	atσ	aaa	agt	cct	gat	cag	ctc	atg	qtq	cac	aaa	ggg	aaa	tgt	att	ggc	923
98	Met	Glv	Ser	Pro	Asp	Gln	Leu	Met	Val	His	Lys	Gly	Lys	Cys	Ile	Gly	
99		1		275					280		-			285			
101	Lagt	gat	: qaa	a caa	ctt	gga	aaa	ı tta	gto	tac	aat	gct	ttg	gaa	a aca	a gcc	971
102	Sei	Ast	Ğlı	ı Glr	ı Lei	ı Ğİv	Lys	Let	ı Val	Туз	Ası	n Āla	a Leu	ı Glı	ı Thi	Ala	
103		-	290			_	-	29!		_			300				
105	act	gat	qq	e ttt	gto	: ttg	tto	r tat	gag	, tgg	gto	ct	t cag	r tgg	cas	g aaa	1019
1.06	Thi	· Gĺv	Ğİ	y Phe	val	l Leu	Lei	Tyl	r Glu	Tr	val	Lei	ı Glr	Tr	Glr	l Lys	
107		.305		•			310					31	õ				
109	aaa	ato	qqt	t cca	a tto	ctt	acc	agt	caa	ı gaa	aaa	a ga	g aag	r att	t gat	aag	1067
110	Lys	Met	Gly	y Pro	) Phe	e Leu	Thi	: Se	r Glr	ı Ğlı	ı Lys	Gl	ı Lys	Ile	a Asp	Lys	
	L 320		-	-		325					330					335	
113	3 tgc	aaa	aad	g cac	g att	caa	gga	aca	a gaa	aca	a gaa	a tto	aac	tea	a ct	g gta	1115
114	Cys	Lys	ь Гуз	s Glr	ılı	e Gln	Gly	Thi	r Glu	Th:	: Glu	ı Phe	a Asr	Set	r Lei	ı Val	
115	5				340	)				345	5				350	)	
117	aaa	a tto	ago	c cat	c cca	a aat	gta	gta	a cgc	tac	ctt	ge	a ato	, aat	t cto	aaa	1163
118	Lys	Leu	. Se	r His	s Pro	) Asn	Va]	L Vai	l Arg	у Туз	: Leu	ı Ala	a Met	Ası	ı Lei	ı Lys	
119	)			355	5				360	)				36	5		
121	Lgad	caa	gad	c gad	tcc	ato	gt	ggt	g gad	att	tta	a gt	ggag	g cad	c ati	: agt	1211
122	Gli	Glr	Ās	p Asp	Sei	r Ile	· Val	L Vai	l Asp	Ile	e Lei	ı Va.	l Glu	ı His	s Ile	e Ser	
123	3		370	0				37!	5				380	)			
125	व व व	get	tc	t ctt	t gct	gca	cac	ct	gago	cac	tca	a gg	ccc	: ato	c cct	gtg	1259
126	GI	, val	. Se	r Lei	ı Ālā	a Äla	His	Lei	ı Sei	: His	s Sei	c G1	y Pro	110	e Pro	val	
127	7	385	;				390	)				39	5				
129	cat	cac	cti	t cgo	agg	g tac	aca	a gct	t cag	g cto	ctg	j tc	a ggo	ct1	t gat	t tat	1307
130	) His	Glr	Lei	u Arg	y Ar	y Tyr	Thi	c Ala	a Glr	ı Leı	ı Let	ı Se	r Gly	Le	ı Ası	Tyr	
133	400	)				405	5				410	)				415	
133	a ct	g cac	age	c aat	t tet	t gtg	gt	g ca	t aag	ggto	cto	g ag	t gca	tc	t aat	t gtc	1355

## RECEIVED

OCT 1 7 2000

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

DATE: 10/04/2000 TIME: 22:32:05 PATENT APPLICATION: US/09/515,806

Input Set : A:\38155002.app
Output Set: N:\CRF3\10042000\I515806.raw

OCT 17 2000

19 EU 11

				-													
134	Leu	His	Ser	Asn	Ser	Va1	Val	His	Lys	Val	Leu	Ser	Ala	Ser	Asn	Val	
135					420					425					430		1402
137	ttg	gtg	gat	gca	gaa	ggc	acc	gtc	aag	att	acg	gac	tat	agc	att	Con	1403
138	Leu	Val	Asp		Glu	Gly	Thr	Val	Lys	Ile	Thr	Asp	Tyr	ser	TTE	ser	
139				435					440					445			1451
141	aag	cgc	ctc	gca	gaç	att	tgc	aag	gag	gat	gtg	ttt	gag	caa	acc	cga.	1451
	Lys	Arg		Ala	Asp	He	Cys	Lys	GLu	Asp	Val	Pne	GIU	GIN	1111	AIG	
143			450					455					460			~~~	1499
145	gtt	cgt	ttt	agt	gac	aat	gct	ctg	cct	tat	aaa	acg	999	aag	add Ta	Clu	1433
	Val		Phe	Ser	Asp	Asn		Leu	Pro	Tyr	гāг	TOF	GTÄ	гÀг	гу	GIY	
147		465					470				+	475	200	033	aaa	car	1547
149	gat	gtt	tgg	cgt	ctt	ggc	CLL	ctg	ctg	CLG	Con	Lon	cor	Cla	Clu	Gln	131/
		Val	Trp	Arg	Leu		Leu	Leu	ьeu	Leu	490	Leu	Ser	GIH	GLY	495	
151	480					485	~+ ~	acc	2+0	act		дас	tta	cca	act		1595
153	gaa	tgt	gga	gag	Lac	Dro	77-1	Thr	Tla	Dro	Cor	Acn	Len	Pro	Ala	Asp	
	GIU	Cys	GTĀ	GIU	500	PIO	Val	1111	116	505	JCI	nsp	пси	110	510	···	
155			~a+	+++		220	222	tgt	ata		tta	gat	gac	aaσ		aga	1643
150	Pho	Cla	yar.	Dho	LOU	Lug	Lve	Cys	Val	Cvs	Len	Asp	Asp	Lvs	Glu	Arq	
159	rne	GIII	ASP	515	Lieu	цуз	пур	CIO	520	O, D				525	•	-	
161	+ ~~	ant	000	272	сал	tta	ttα	aaa		age	ttt	ata	aat	ccc	caq	cca	1691
162	Trn	Cor	Dro	Gln	Gln	Len	Len	Lys	His	Ser	Phe	Ile	Asn	Pro	Gln	Pro	
163	TIP	361	530	GIII	GIM	Leu	Dea	535					540				
165	222	ato	cct	cta	ata	σаа	caa	agt	cct	qaa	qat	tct	gga	gga	caa	gat	1739
166	Lvs	Met	Pro	Leu	Val	Glu	Gln	Ser	Pro	Ğlu	Asp	Ser	Gly	Gly	Gln	Asp	
167		545					550					555					
169	tat	att	σaσ	act	att	att	cct	agc	aac	cgg	cta	CCC	agt	gct	gcc	ttc	1787
170	Tvr	Val	Glu	Thr	Val	Ile	Pro	Ser	Asn	Arg	Leu	Pro	Ser	Ala	Ala	Phe	
171	560					565					570					575	
173	ttt	agt	gag	aca	cag	aga	cag	ttt	tcc	cga	tac	ttc	att	gag	ttt	gaa	1835
174	Phe	Ser	Glu	Thr	Gln	Arg	Gln	Phe	Ser	Arg	Tyr	Phe	Ile	Glu	Phe	Glu	
175					580					585					590		
177	gaa	tta	caa	ctt	ctt	ggt	aaa	gga	gct	ttt	gga	gct	gtc	atc	aag	gtg	1883
178	Glu	Leu	Gln	Leu	Leu	Gly	Lys	Gly	Ala	Phe	Gly	Ala	Val	He	Lys	Val	
179				595					600					605			1021
181	cag	aac	aag	ttg	gac	ggc	tgc	tgc	tac	gca	gtg	aag	cgc	atc	ccc	atc	1931
182	Gln	Asn		Leu	Asp	Gly	Cys	Cys	Tyr	Ala	Val	ьys	Arg	ire	Pro	rre	
183			610					615					620			2+4	1979
185	aac	ccg	gcc	agc	cgg	cag	ttc	cgc	agg	atc	aag	ggc	gaa	919	mbr.	Lou	19/9
	Asn		Ala	Ser	Arg	GIn		Arg	Arg	rre	пАг	635	GIU	Vai	1111	пец	
187		625					630						+ 2 0	220	~~~	+ 00	2027
189	ctg	tca	cgg	ctg	cac	cat	gag	aac	att	grg	cgc	m	Dar.	Acn	712	Trn	2021
		ser	Arg	ьeu	HIS	645	Giu	Asn	ire	Vai	650	TYT	1 Y 1	ווכח	nia	655	
191	640							<i>a a a</i>	~~~	000		200	CCG	ccc	cca		2075
193	atc	gag	cgg	cac	gag	252	Dro.	gcg Ala	Clu	Dro	999 G1v	Thr	Pro	Pro	Pro	Asn	20,2
	TTE	GLU	Arg	nis	660	AT 9	FIO	UT C	GTA	665	O T Y				670	E	
195	+ 00	~~~	000	at a		аал	σa+	gac	cga		qca	cac	aaa	caq		aca	2123
100	COS	999	Dro	Lau	9 C C	Luc	Agn	Asp	Ara	Ala	Ala	Ara	Glv	Gln	Pro	Ala	_
T 2 Q	ser	GIY	FIO	пeп	пта	-y3			9			9	1				

RAW SEQUENCE LISTING

DATE: 10/04/2000 TIME: 22:32:05 PATENT APPLICATION: US/09/515,806

Input Set : A:\38155002.app
Output Set: N:\CRF3\10042000\1515806.raw

199				675					680					685			
	agc	qac	aca		qqc	ctq	gac	agc		gag	qcc	qcc	qcq		cca	ccc	2171
	Ser																
203			690					695					700				
205	atc	ctc	agc	agc	tcg	gtg	gag	tgg	agc	act	tcg	ggc	gag	cgc	tcg	gcc	2219
206	Ile	Leu	Ser	Ser	Ser	Val	Glu	Trp	Ser	Thr	Ser	Gly	Glu	Arg	Ser	Ala	
207		705					710					715					
	agt																2267
210	Ser	Ala	Arg	Phe	Pro	Ala	Thr	Gly	Pro	Gly		Ser	Asp	Asp	Glu		
	720					725					730					735	
	gac																2315
	Asp	Asp	Glu	Asp		His	Gly	Gly	Val		Ser	Gln	Ser	Phe		Pro	
215					740				_	745					750		0000
	gct																2363
	Ala	Ser	Asp		Glu	Ser	Asp	He		Phe	Asp	Asn	Glu		GIU	Asn	
219				755					760			~~~		765	~~~	t.a.o	2411
	agt		_	_		-	-		_	-			-			-	2411
222	Ser	гаг	770	GIII	ASII	GIII	ASP	775	ASP	Cys	ASII	Gru	780	ASII	СТА	Cys	
	cat	~ ~ ~		~~~	003	tos	a+a		ant	a a a	aat	ata		tac	cta	tac	2459
	His																2437
227	nis	785	261	Giu	FIU	Ser	790	1111	1111	GIU	лта	795	1113	× 7 ×	Dea	- 1 -	
	atc		atα	aaa	tac	tat		ааσ	age	act	tta		gac	acc	att	gac	2507
	Ile																200,
	800	01			-1-	805		-10			810	,				815	
	cag	qqa	cta	tat	cga		acc	atc	aga	ctc	taa	agg	ctt	ttt	cga	gag	2555
	Gln																
235				-	820	-			_	825	•	_			830		
237	att	ctg	gat	gga	tta	gct	tat	atc	cat	gag	aaa	gga	atg	att	cac	cgg	2603
238	Ile	Leu	Asp	Gly	Leu	Ala	Tyr	Ile	His	Glu	Lys	Gly	Met	Ile	His	Arg	
239				835					840					845			
241	gat	ttg	aag	cct	gtc	aac	att	ttt	ttg	gat	tct	gat	gac	cat	gtg	aaa	2651
	Asp	Leu	-	Pro	Val	Asn	Ile		Leu	Asp	Ser	Asp		His	Val	Lys	
243			850					855					860				
	ata																2699
	Ile	-	Asp	Phe	Gly	Leu		Thr	Asp	His	Leu		Phe	Ser	Ala	Asp	
247		865					870					875					2747
	agc																2747
	Ser	гаг	GIN	Asp.	Asp		Thr	GTA	ASP	Leu	890	тĀR	ser	ASP	PIO	895	
	880				~~~	885	~++	~~~		~~+	0 0 0	+-+	a+ a	200	000		2795
	ggt																2/93
255	Gly	urs	neu	TIIT	900	we t	vai	GIY	1111	905	neu	TAT	4 a T	Ser	910	GIU.	
	qtc	caa	aaa	age		aaa	tet	aca	tac		cac	aaa	ata	gat		ttc	2843
	Val																2013
259	,	22.11	541	915		-,5			920			-,-		925			
	agc	cta	qqa		atc	ttc	ttt	qaq		tcc	tat	cac	ccc		qtc	acq	2891
	Ser																
263			930					935			-		940				

PATENT APPLICATION: US/09/515,806 ' TIME: 22:32:05 Input Set : A:\38155002.app Output Set: N:\CRF3\10042000\1515806.raw 265 gct tca gaa agg atc ttt gtt ctc aac caa ctc aga gat ccc act tcg 2939 266 Ala Ser Glu Arg Ile Phe Val Leu Asn Gln Leu Arg Asp Pro Thr Ser 267 945 950 955 269 cct aag ttt cca gaa gac ttt gac gat gga gag cat gca aag cag aaa 2987 270 Pro Lys Phe Pro Glu Asp Phe Asp Asp Gly Glu His Ala Lys Gln Lys 271 960 965 970 975 273 tea gte ate tee tgg etg ttg aac eac gat eea gea aaa egg eec aca 3035 274 Ser Val Ile Ser Trp Leu Leu Asn His Asp Pro Ala Lys Arg Pro Thr 275 980 985 990 985 277 gec aca gaa etg etc aag agt gag etg etg ecc eca ecc eag atg gag 3083 278 Ala Thr Glu Leu Lys Ser Glu Leu Leu Pro Pro Gln Met Glu 279 995 1000 281 gag tca gag ctg cat gaa gtg ctg cac cac acg ctg acc aac gtg gat 282 Glu Ser Glu Leu His Glu Val Leu His His Thr Leu Thr Asn Val Asp 283 1010 1015 1020 285 ggg aag gcc tac cgc acc atg atg gcc cag atc ttc tcg cag cgc atc 3179 286 Gly Lys Ala Tyr Arg Thr Met Met Ala Gln Ile Phe Ser Gln Arg Ile 287 1025 1030 1035 289 tcc cct gcc atc gat tac acc tat gac agc gac ata ctg aag ggc aac 3227 290 Ser Pro Ala Ile Asp Tyr Thr Tyr Asp Ser Asp Ile Leu Lys Gly Asn 1045 1050 293 ttc tca atc cgt aca gcc aag atg cag cat gtg tgt gaa acc atc 294 Phe Ser Ile Arg Thr Ala Lys Met Gln Gln His Val Cys Glu Thr Ile 3275 1060 1065 1070 297 atc cgc atc ttt aaa aga cat gga gct gtt cag ttg tgt act cca cta 298 Ile Arg Ile Phe Lys Arg His Gly Ala Val Gln Leu Cys Thr Pro Leu 1075 1080 1085 301 ctg ctt ccc cga aac aga caa ata tat gag cac aac gaa gct gcc cta 302 Leu Leu Pro Arg Asn Arg Gln Ile Tyr Glu His Asn Glu Ala Ala Leu 303 1090 1095 1100 305 ttc atg gac cac agc ggg atg ctg gtg atg ctt cct ttt gac ctg cgg 3419 306 Phe Met Asp His Ser Gly Met Leu Val Met Leu Pro Phe Asp Leu Arg 307 1105 1110 1115 309 atc cct ttt gca aga tat gtg gca aga aat aat ata ttg aat tta aaa 3467 310 Ile Pro Phe Ala Arg Tyr Val Ala Arg Asn Asn Ile Leu Asn Leu Lys 311 1120 1125 1130 313 cga tac tgc ata gaa cgt gtg ttc agg ccg cgc aag tta gat cga ttt 3515 314 Arg Tyr Cys Ile Glu Arg Val Phe Arg Pro Arg Lys Leu Asp Arg Phe 315 1140 1145 1150 317 cat ccc aaa gaa ctt ctg gag tgt gca ttt gat att gtc act tct acc 3563 318 His Pro Lys Glu Leu Leu Glu Cys Ala Phe Asp Ile Val Thr Ser Thr 1155 1160 321 acc aac agc ttt ctg ccc act gct gaa att atc tac act atc tat gaa 322 Thr Asn Ser Phe Leu Pro Thr Ala Glu Ile Ile Tyr Thr Ile Tyr Glu 1170 1175 1180 325 atc atc caa gag ttt cca gca ctt cag gaa aga aat tac agt att tat 326 Ile Ile Gln Glu Phe Pro Ala Leu Gln Glu Arg Asn Tyr Ser Ile Tyr

1190

329 ttg aac cat acc atg tta ttg aaa gca ata ctc tta cac tgt ggg atc

DATE: 10/04/2000

3707

RAW SEQUENCE LISTING

1185

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/515,806

DATE: 10/04/2000 TIME: 22:32:06

Input Set : A:\38155002.app

Output Set: N:\CRF3\10042000\1515806.raw

L:1222 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1222 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1222 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:5 L:1225 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1225 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 M:340 Repeated in SeqNo=5 L:1228 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1228 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1231 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1231~M:258~W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1234 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1234 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1237 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1237 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1240~M:258~W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1240 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1243 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1243 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1246 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1246 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1249 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1249 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1252 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1252 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1255 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1255 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1258 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5  $L:1258\ M:258\ W:$  Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1261 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1261 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1264 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1264 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1267 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1267 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1270 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5 L:1270 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5 L:1291 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6 L:1291 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6 L:1291 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:6 L:1294 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6 L:1294 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6 M:340 Repeated in SeqNo=6

US 095158060BP1



Creation date: 09-09-2003

Indexing Officer: HNGUYEN13 - HIEU NGUYEN

Team: OIPEBackFileIndexing

Dossier: 09515806

Legal Date: 02-08-2001

No.	Doccode	Number of pages
1	C.AD	

Total number of pages: 1

Remarks:

Order of re-scan issued on .....